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D135-751-011**Job Sheet 187621****Part No:** D135-751-011**Job Qty:** 1 ea**Part Name:** Skidtube with Standard Wearplates Fits LH or RH**Part Weight:** 0 lbs**Status:** New**Priority:** Medium**Job Created:** 12/10/18**Job Tracking No:****Due Date:** 1/17/19**Created By:** Jesse White**Type:** SOLD**Description:**

Note: DWG DSI 9661 REV A, D3507 REV D IPP Rev:A 44353 New Issue JLM IPP Rev:B 06-12-18 As per Rev B JLM IPP Rev:C 07-12-11 ECN 1036 as per revB DD IPP Rev D 08.11.04 Added DT9431 to sequence 5 EC verf DD IPP Rev E 10.02.22 per PAR 09-043 EC verified: DD IPP Rev:F 10.06.09 remove seq110 DD verf:EC IPP Rev G 10.09.17 added D3507-1-bent EC verified:DD IPP REV:H 13.12.11 ECN13-619/ CHG002 DD VERF:JLM

Ship Via:

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CANADA
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www.dartaerospace.com

Container No: S138888**Part:** D135-751-011**Job No:** 187621**Serial No/Batch:** S138888**Revision:****Inspector:****Exp Date:****Instructions:** FAA STC SR01709SE 15/10/2018, TCA LoA RDIMS-9661680-v1 14/0

S

D3512-041 x1

Entered: _____ Date: _____



WORK ORDER NON-CONFORMANCE / ROUTE UPDATE

NCR No. _____

Route update only ☐

Job: _____ Part No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐	DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Eng. (Non-AW) ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Engineering ☐ Water Jet ☐ Supplier ☐ Quality ☐			
Date :	Sequence #:	QTY Affected :		MRB (QSI042)	
Description Work Order Deviation		Disposition		Completed By	
				Lead hand / Supervisor	
				QC / QA Coordinator	
Root Cause Operator ☐ Manufacturing Process ☐ Equip/Tooling ☐ Handling/Preservation ☐ Material ☐ Product Improvement ☐ Process Improvement ☐ Human Factors ☐		FAULT CATEGORY ☐ Pressure/Forced ☐ Bending ☐ Crushing ☐ Cracks ☐ Crimp/Kink/Ripple/Wave/Twist ☐ Marks/Chatter ☐ Mislabeled ☐ Contamination ☐ Misaligned/off center ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Incomplete/Unclear Instructions ☐ Drill Holes ☐ Fit/Function ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain Direction ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set/Set-up ☐ Positioned Wrong ☐ Outside Tolerance ☐ Drawing ☐ Finish ☐ Part Lost/Missing ☐ Misread			
Other/Details:					

Job Routing									
Op No	Operation	Qty	Start Date	Due Date	Standard		Workcenter/Supplier		Sign-off
					Setup Hrs	Run Hrs	Workcenter / Supplier	Lead Time	
90	Start up Operation	1 Ea	1/17/19	1/17/19	0.00	0.00	Start Up Skid tubes-1		DD
120	Skid tubes	1 pcs	1/17/19	1/17/19	0.00	0.80	Skid tubes-1		DD DAS 38 9-89
140	QC	1 pcs	1/17/19	1/17/19	0.00	0.00	QC5		
150	HandFinish	1 pcs	1/17/19	1/17/19	0.00	0.33	HandFinish1		JW
160	QC	1 pcs	1/17/19	1/17/19	0.00	0.00	QC7-1		MJG
170	Skid tubes	1 pcs	1/17/19	1/17/19	0.00	1.00	Skid tubes-1		JW DAS 38 9-89
180	QC	1 pcs	1/17/19	1/17/19	0.00	0.00	QC10		
185	HandFinish	1 pcs	1/17/19	1/17/19	0.00	0.10	HandFinish6		D.R. 19/01/15
187	QC	1 pcs	1/17/19	1/17/19	0.00	0.00	QC7-1		MJG
190	Skid tubes	1 pcs	1/17/19	1/17/19	0.00	0.77	Skid tubes-1		DD DAS 38 9-89
200	QC	1 pcs	1/17/19	1/17/19	0.00	0.00	QC5		
210	HandFinish	1 pcs	1/17/19	1/17/19	0.00	0.08	HandFinish2		D.R. 19/01/15
215	Outsource	1 pcs	1/17/19	1/17/19			ATE003-VC	5	N/A
220	SprayPaint	1 pcs	1/17/19	1/17/19	0.00	0.25	Spray Paint		DEB 19-01-16. DAS 15 9-89
230	QC	1 pcs	1/17/19	1/17/19	0.00	0.00	QC14		AL 19-0-16
260	HandFinish	1 pcs	1/17/19	1/17/19	0.00	0.74	HandFinish4		AL 19-0-16 DAS 15 9-89
270	QC	1 pcs	1/17/19	1/17/19	0.00	0.00	QC5		JAN 17 2019 68
280	Packaging	1 pcs	1/17/19	1/17/19	0.00	0.00	Packaging1-1		JAN 18 2019 89
290	QC	1 pcs	1/17/19	1/17/19	0.00	0.00	QC4		DAS 69 9-89
300	Packaging	1 pcs	1/17/19	1/17/19	0.00	0.00	Packaging3-1		JAN 18 2019 89
305	DC	1 pcs	1/17/19	1/17/19	0.00	0.00	DC		JAN 18 2019 89
310	QC21-FG	1 Ea	1/17/19	1/17/19	0.00	0.00	QC21		21

Part Op 120 - 1-Cut Aft end as per dwg D3507 3-Drill Aft & Fwd Cap holes using DT8678 & DT8901 4-Locate DT8870 & Drill Descriptions: Ground wire hole on top of Tube. 6-Locate DT8870 with #30 cleco in Ground wire hole ,then Pilot Drill all X-Bolt holes using #30" drill. ****DO NOT OPEN AFT CAP HOLES***** 7-Open crossbolt holes to 0.3125" (3 per side). Drill pilot holes for wearplates using Dt8868, Use DT8892 FOR REAR WEARPLATE HOLES. 8-Open six rear wearplate holes using DT8892. Open all wearplate holes to 0.297" 9-Open ground wire hole .297" section E-E 10-Open Aft & Fwd Cap holes using .208" drill. 11-Bore out aft end of tube as per Dwg D3507 & Detail "B". 12- Section G-G holes must be laid out manually, open to #30. 13-Deburr holes.

170 - 1-Open X-Bolt holes to .375" (1 Places) & .500"(2Places) as per Dwg D3507. and section G-G to .750" (2 places) 2-Counter Sink X-BOLT holes as per Dwg D3507 3-Deburr and blow out chips from inside of tube. 4-Bond web as per Dwg D3507 & QSI 015 start time : 8:48:38 end time: 03/07/2019 5-Weld x-bolt spacers as per Dwg D3507 and Detail C-C & D-D and G-G 7-Drill Rivet Holes as per Dwg D3507 Using Dt8871A&B 8-Deburr Rivet holes.

185 - RE-ALODINE ONLY

190 - 1-Rivet D3506-1/-3 as per Dwg D3507.

210 - Touch-up alodine tube as per QSI 005 section 4.1.2.1 do not acid etch.

220 - 1- Apply Primer as per QSI 005 4.2.1.3.3 and dwg A/R Primer Batch: _____ 2- Paint two coats of White paint as per QSI 005 4.2 and dwg A/R Paint Batch: _____

260 - 1- Install Wearplate & Ground Wire inserts as per Dwg D3507. 1-Inspect for Foreign objects 2-Install Fwd & Aft caps as per Dwg D3507 And Detail "A" & "B" 3-Install Wearplates as per Dwg D3507 , Note:Install (1) Bolt and (1) washer on Ground Wire insert on top of tube Do not Install Scews where indicated on Dwg(Note #6) 4-assemble o'ring to plug as per dwg D3492 and apply o'ring lube 5- Wing Walk as per Dwg D3507 and QSI 005 4.4 Batch: _____

300 - Identify and pack for shipping as per PPP D135-751-011 PPP Rev: _____

305 - Photocopy bluefile & type labels per PPP D135-751-011 CHG002

M138997 START: 10:45 TEMP: 320° FINISH: 11:15

Entered: _____ Date: _____



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Description Work Order Deviation		Disposition		Completed By	
				Lead hand / Supervisor	
				QC / QA Coordinator	
Root Cause Operator ☐ Manufacturing Process ☐ Equip/Tooling ☐ Handling/Presservation ☐ Material ☐ Product Improvement ☐ Process Improvement ☐ Human Factors ☐		FAULT CATEGORY ☐ Pressure/Forced ☐ Bending ☐ Crushing ☐ Cracks ☐ Crimp/Kink/Ripple/Wave/Twist ☐ Marks/Chatter ☐ Mislabeled ☐ Contamination ☐ Misaligned/off center ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Incomplete/Unclear Instructions ☐ Drill Holes ☐ Fit/Function ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain Direction ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set/Set-up ☐ Positioned Wrong ☐ Outside Tolerance ☐ Drawing ☐ Finish ☐ Part Lost/Missing ☐ Misread			
Other/Details: _____					

Job BOM

Part / Item	Component Name	Quantity	Operation	Container
D3507-1-BENT	Skidtube Assembly EC135	1 pcs (1 ea)	90-Start up Operation	3117522
D3504-1	Crossbolt Spacer	2 pcs (2 ea)	170-Skidtubes	5077412
D3504-3	Crossbolt Spacer	1 pcs (1 ea)	170-Skidtubes	8105604
D3504-5	Crossbolt Spacer	2 pcs (2 ea)	170-Skidtubes	5092232
D3505-1	Web	1 Ea (1 ea)	170-Skidtubes	5141785
D3506-1	Doubler	4 pcs (4 ea)	190-Skidtubes	5091974
D3506-3	Doubler	2 pcs (2 ea)	190-Skidtubes	5091971
MS20601-AD4W3	Rivet	12 Ea (12 ea)	190-Skidtubes	3066183
ALS4-1032-225	Rivnut	1 Ea (1 ea)	260-HandFinish	5058139
ALS7-1032-130	Rivnut	38 Ea (38 ea)	260-HandFinish	5112899
AN3C4A	Bolt	31 Ea (31 ea)	260-HandFinish	5123444
AN3C5A	Bolt	2 Ea (2 ea)	260-HandFinish	5075996
AN526C1032R10	Screw	2 Ea (2 ea)	260-HandFinish	50716643
D2965	Cap	1 pcs (1 ea)	260-HandFinish	5045482
D2965-3	Cap	1 pcs (1 ea)	260-HandFinish	F126369
D3492-1	Plug	4 Ea (4 ea)	260-HandFinish	5138108
D3492-3	Plug	4 Ea (4 ea)	260-HandFinish	5137512
D3492-7	Plug	2 pcs (2 ea)	260-HandFinish	F106110
D4918-047	Wearplate Aft	1 Ea (1 ea)	260-HandFinish	5096801
D4918-1	Wearplate Fwd	1 Ea (1 ea)	260-HandFinish	5090130
D4918-3	Wearplate Center Fwd	1 Ea (1 ea)	260-HandFinish	5116347
D4918-5	Wearplate Center Aft	1 Ea (1 ea)	260-HandFinish	5120795
NAS1149C0332R	Washer	33 Ea (33 ea)	260-HandFinish	5136130
NAS1611-007	O-Ring	2 Ea (2 ea)	260-HandFinish	F103697
NAS1611-010	O-Ring	4 Ea (4 ea)	260-HandFinish	5106747
NAS1611-013	O-Ring	4 Ea (4 ea)	260-HandFinish	5106791
AN3C4A	Bolt	8 Ea (8 ea)	280-Packaging	5090636
D3512-041	Wearplate	2 Ea (2 ea)	280-Packaging	5109320x1 5145801
NAS1149C0332R	Washer	8 Ea (8 ea)	280-Packaging	5104354

Job Allocations

Operation	Component Part	Required	Inventory	Allocated
90-Start up Operation	D3507-1-BENT	1	6	0
170-Skidtubes	D3504-1	2	4	0
	D3504-3	1	14	0
	D3504-5	2	30	0
	D3505-1	1	2	0
190-Skidtubes	D3506-1	4	32	0
	D3506-3	2	20	0
	MS20601-AD4W3	12	501	0
260-HandFinish	ALS4-1032-225	1	1,230	0
	ALS7-1032-130	38	1,581	0
	AN3C4A	31	1,137	0
	AN3C5A	2	1,492	0
	AN526C1032R10	2	98	0
	D2965	1	43	0
	D2965-3	1	6	0
	D3492-1	4	69	0
	D3492-3	4	63	0
	D3492-7	2	11	0
	D4918-047	1	7	0
	D4918-1	1	5	0
	D4918-3	1	8	0
	D4918-5	1	7	0
	NAS1149C0332R	33	2,708	0
	NAS1611-007	2	261	0
	NAS1611-010	4	599	0
	NAS1611-013	4	217	0
280-Packaging	AN3C4A	8	1,137	0
	D3512-041	2	2	0
	NAS1149C0332R	8	2,708	0

Entered: _____ Date: _____



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Date :	Sequence #:	QTY Affected :		MRB (QSI042)	
Description Work Order Deviation		Disposition		Completed By	
				Lead hand / Supervisor	
				QC / QA Coordinator	
Root Cause Operator ☐ Manufacturing Process ☐ Equip/Tooling ☐ Handling/Presservation ☐ Material ☐ Product Improvement ☐ Process Improvement ☐ Human Factors ☐		FAULT CATEGORY ☐ Pressure/Forced ☐ Bending ☐ Crushing ☐ Cracks ☐ Crimp/Kink/Ripple/Wave/Twist ☐ Marks/Chatter ☐ Mislabeled ☐ Contamination ☐ Misaligned/off center ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Incomplete/Unclear Instructions ☐ Drill Holes ☐ Fit/Function ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain Direction ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set/Set-up ☐ Positioned Wrong ☐ Outside Tolerance ☐ Drawing ☐ Finish ☐ Part Lost/Missing ☐ Misread			
Other/Details:					

Part Specifications

Specifications could not be found.

Plex 12/10/18 1:11 PM dart.white.jesse

Entered: _____ Date: _____



WORK ORDER NON-CONFORMANCE / ROUTE UPDATE

NCR No. _____

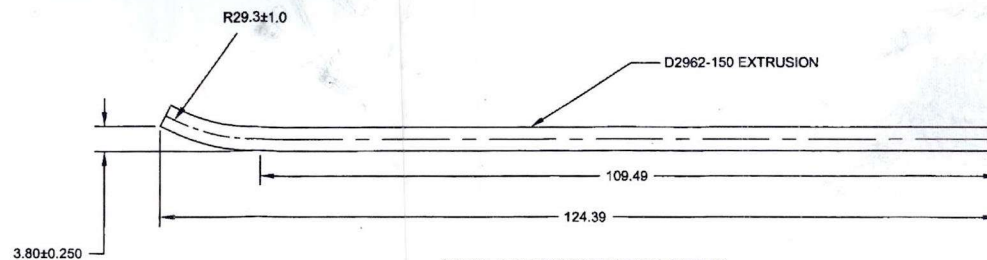
Route update only ☐

Job: _____ Part No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐	DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Eng. (Non-AW) ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Engineering ☐ Water Jet ☐ Supplier ☐ Quality ☐			
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Description Work Order Deviation			Disposition		
			Completed By		
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Root Cause Operator ☐ Manufacturing Process ☐ Equip/Tooling ☐ Handling/Presservation ☐ Material ☐ Product Improvement ☐ Process Improvement ☐ Human Factors ☐		FAULT CATEGORY ☐ Pressure/Forced ☐ Bending ☐ Crushing ☐ Cracks ☐ Crimp/Kink/Ripple/Wave/Twist ☐ Marks/Chatter ☐ Mislabeled ☐ Contamination ☐ Misaligned/off center ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Incomplete/Unclear Instructions ☐ Drill Holes ☐ Fit/Function ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain Direction ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set/Set-up ☐ Positioned Wrong ☐ Outside Tolerance ☐ Drawing ☐ Finish ☐ Part Lost/Missing ☐ Misread			
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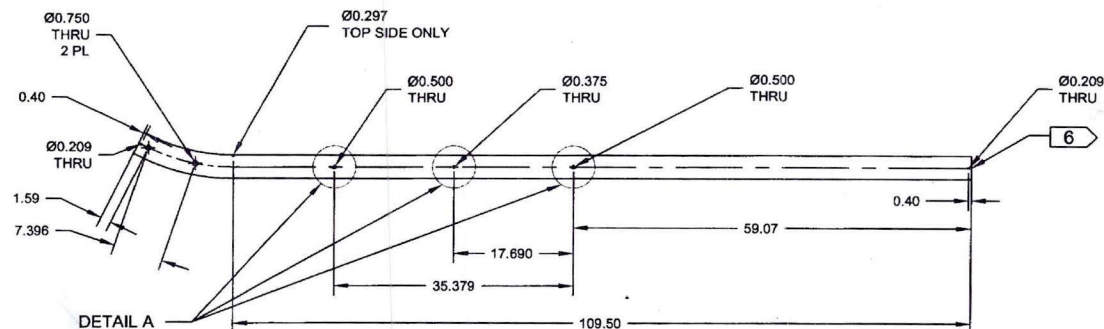
Qty	Part Number	Description
X	D3507-041	SKIDTUBE ASSEMBLY
1	D2962-150	EXTRUSION
1	D2965	CAP
1	D2965-3	CAP
4	D3482-041	PLUG ASSEMBLY
4	D3482-043	PLUG ASSEMBLY
2	D3482-047	PLUG ASSEMBLY
2	D3504-1	CROSS BOLT SPACER
1	D3504-3	CROSS BOLT SPACER
2	D3504-5	CROSS BOLT SPACER
1	D3505-1	WEB
4	D3506-1	DOUBLER
2	D3506-3	DOUBLER
1	D4918-1	WEARPLATE
1	D4918-3	WEARPLATE
1	D4918-5	WEARPLATE
1	D4918-047	WEARPLATE
38	AELS-1032-130	INSERT
1	AELS-1032-225	INSERT
31	AN3C4A	BOLT
2	AN3C5A	BOLT
2	AN526C1032-10	SCREW
33	AN960C10L	WASHER
12	MS20601AD4W3	RIVET

GENERAL NOTES:

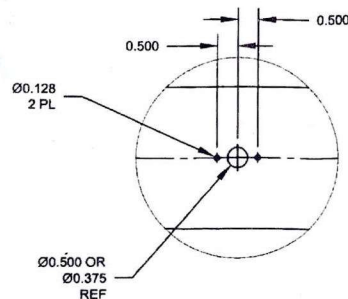
- 1) MATERIAL: N/A
- 2) FINISH: CHEMICAL CONVERSION COAT PER DART QSI 005 4.1 PRIOR TO INSERTING D3505-1 WEB.
STANDARD: PRIME (REF. 4.2.1.3.3) AND PAINT WHITE PER DART QSI 005 4.2.
OPTIONAL: POWDER COAT WHITE (REF 4.3.5.1) PER DART QSI 005 4.3.
BLACK ANTI-SKID PAINT AS INDICATED TO 1.00 ABOVE CENTERLINE PER DART QSI 005 4.4 (OPTIONAL)
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) DIMENSIONS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 6) IDENTIFICATION: IDENTIFY WITH DART B/N PER DART QSI 044 6.4 (VIBRATING STYLUS) ON I.D. OF TUBE
- 7) WEIGHT: 24.1 LB (FROM IIN-D135-751)
- 8) WELDING TO BE DONE PER DART QSI 004
- 9) INSERT D3505-1 WEB TO LOCATION SHOWN OFF AFT END OF SKIDTUBE AND BOND WEB INTO OUTER TUBE WITH NON-STRUCTURAL SIKAFLEX-241/291 ADHESIVE PER DART QSI 015 AFTER BENDING
- 10) USE DART DRILL TEMPLATE D78888 TO LOCATE AND DRILL Ø0.297 HOLES (38 PLACES) FOR WEARSHOE INSERTS. INSTALL AELS-1032-130 PER SECTION C-C (38 PLACES) AFTER FINISH. SEAL WEARPLATE BOLTS WITH SIKAFLEX-241/291
- 11) DO NOT INSTALL AN3C4A BOLTS AND AN960C10L WASHERS IN INDICATED LOCATIONS



D3507-1 BENDING/CUTTING DETAIL



D3507-1 DRILLING DETAIL



DETAIL A
TYP. 6 PL
SCALE 3:10

D	REMOVE D3568-X GASKETS, D4918-X WAS D3508-X REVISE FINISH TO ADD PAINT AS THE PREFERRED FINISH. REVISED NOTES	DW	13.08.30
C	ADD D3504-5, FOR SKID GEAR DEFLECTOR; CHANGE FWD CAP BOLT TO AN526C1032-10 SCREW	DC	07.09.19
B	ADD GASKET, CHANGE HARDWARE MAT'L	PH	06.11.01
A	NEW ISSUE	PH	06.04.21
REV.	DESCRIPTION	BY	DATE
DESIGN	DW	DART AEROSPACE USA, INC KENT, WA	
DRAWN	DW		
CHECKED	UP	DRAWING NO.	REV. D
MFG. APPR.	BA	D3507	SHEET 1 OF 2
APPROVED	WJ	TITLE	SCALE
DE APPR.	WJ	EC 135 SKIDTUBE	NTS
DATE	13.08.30	COPYRIGHT © 2013 BY DART AEROSPACE USA, INC THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL, AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE USA, INC.	

Entered: _____ Date: _____

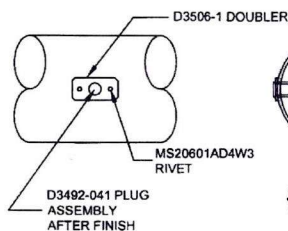


WORK ORDER NON-CONFORMANCE / ROUTE UPDATE

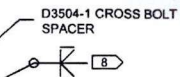
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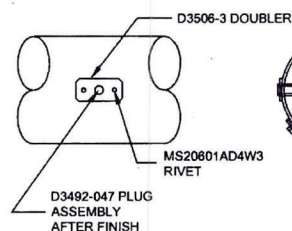
Job: _____ Part No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐	DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Eng. (Non-AW) ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Engineering ☐ Water Jet ☐ Supplier ☐ Quality ☐			
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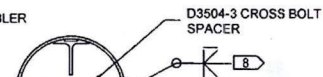
SECTION C-C
(SCALE 3:10)



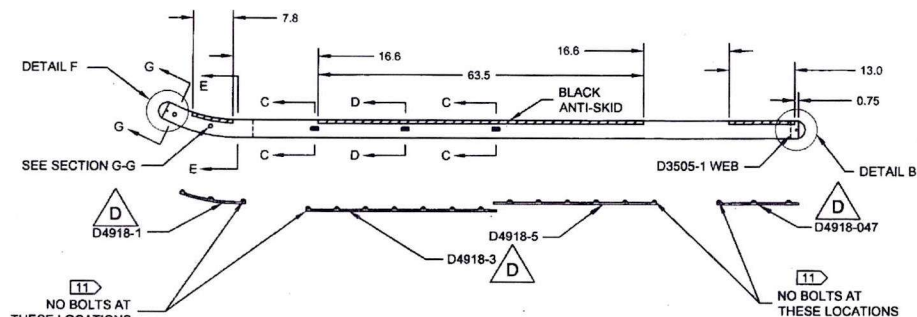
- AFTER BENDING AND DRILLING ASSEMBLY PERFORM THE FOLLOWING FOR Ø0.500 HOLES ONLY:
1. CHAMFER HOLE 0.030 x 45°
 2. INSERT D3504-1 CROSS BOLT SPACER 2 PL
 3. WELD INTO PLACE AND GRIND FLUSH
 4. IF REQUIRED, PASS Ø0.404 (Y DRILL) THRU HOLE
 5. INSTALL D3506-1 DOUBLER 4 PL USING MS20601AD4W3 RIVET 8 PL
 6. AFTER FINISH, INSTALL D3492-041 PLUG ASSEMBLY 4 PL



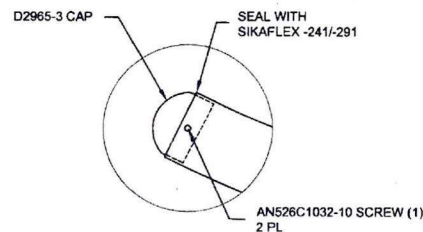
SECTION D-D
(SCALE 3:10)



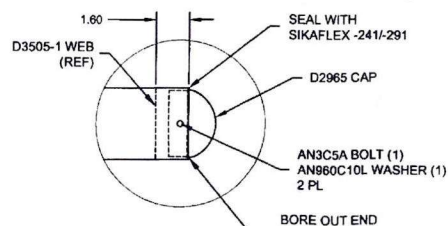
- AFTER BENDING AND DRILLING ASSEMBLY PERFORM THE FOLLOWING FOR Ø0.375 HOLES ONLY:
1. CHAMFER HOLE 0.030 x 45°
 2. INSERT D3504-3 CROSS BOLT SPACER 1 PL
 3. WELD INTO PLACE AND GRIND FLUSH
 4. IF REQUIRED, PASS Ø0.277 (J DRILL) THRU HOLE
 5. INSTALL D3506-3 DOUBLER 2 PL USING MS20601AD4W3 RIVET 4 PL
 6. AFTER FINISH, INSTALL D3492-047 PLUG ASSEMBLY 2 PL



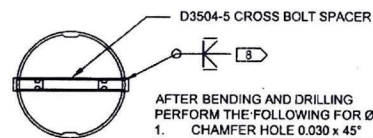
D3507-041 ASSEMBLY DETAIL



DETAIL F
(SCALE 1:5)

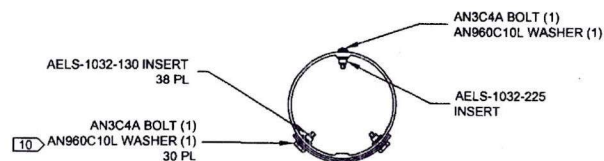


DETAIL B
(SCALE 1:5)



SECTION G-G
(SCALE 3:10)

- AFTER BENDING AND DRILLING PERFORM THE FOLLOWING FOR Ø0.750 HOLES ONLY:
1. CHAMFER HOLE 0.030 x 45°
 2. INSERT D3504-5 CROSS BOLT SPACER 2 PL
 3. WELD INTO PLACE AND GRIND FLUSH
 4. IF REQUIRED, PASS Ø0.594 (19/32 DRILL) THRU HOLE
 5. AFTER FINISH, INSTALL D3492-043 PLUG ASSEMBLY 4 PL



SECTION E-E
(SCALE 3:10)

DESIGN	Dw	DART AEROSPACE USA, INC	
DRAWN	Dw	KENT, WA	
CHECKED	GP	DRAWING NO.	REV. D
MFG. APPR.		D3507	SHEET 2 OF 2
APPROVED		TITLE	SCALE
DE APPR.		EC 135 SKIDTUBE	NTS
DATE	13.08.30	COPYRIGHT © 2013 BY DART AEROSPACE USA, INC. THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE USA, INC.	

RELEASED
2013-12-10

Entered: _____ Date: _____



WORK ORDER NON-CONFORMANCE / ROUTE UPDATE

NCR No. _____

Route update only ☐

Job: _____ Part No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐	DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Eng. (Non-AW) ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Engineering ☐ Water Jet ☐ Supplier ☐ Quality ☐						
Date : _____		Sequence # : _____		QTY Affected : _____		MRB (QSI042)		
Description Work Order Deviation				Disposition				
								Completed By
								Lead hand / Supervisor
								QC / QA Coordinator
Root Cause Operator ☐ Manufacturing Process ☐ Equip/Tooling ☐ Handling/Preservation ☐ Material ☐ Product Improvement ☐ Process Improvement ☐ Human Factors ☐		FAULT CATEGORY ☐ Pressure/Forced ☐ Bending ☐ Crushing ☐ Cracks ☐ Crimp/Kink/Ripple/Wave/Twist ☐ Marks/Chatter ☐ Mislabeled ☐ Contamination ☐ Misaligned/off center ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Incomplete/Unclear Instructions ☐ Drill Holes ☐ Fit/Function ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain Direction ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set/Set-up ☐ Positioned Wrong ☐ Outside Tolerance ☐ Drawing ☐ Finish ☐ Part Lost/Missing ☐ Misread						
Other/Details:								